Amendment to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Cancelled)
- (Currently amended) The process of Claim + 8 where in the Separation Step pressure exceeds 55 psia.
- (Currently amended) The process of Claim + 8 where in the Separation Step pressure exceeds 130 psia.
- 4. (Currently amended) The process of Claim + 8 where, after conducting the Separation Step but before introducing Stream B to the intake of the first stage compressor, Stream B is treated by passing it to a condenser, cooling it to a temperature that allows the acid gases to pass the condenser but is sufficiently low to remove one or more other condensable gas from Stream B.
- 5. (Currently amended) The process of Claim + 8 where at least one acid gas-absorbing chemical Agent in the treatment Fluid is an alkanolamine, comprising from 2 to 6 carbon atoms.
- 6. (Currently amended) The process of Claim + 8 where at least one acid gas-absorbing chemical Agent is selected from the group consisting of ethanolamine; diethanolamine; diisopropanolamine; triethanolamine; N-methyldiethanolamine; piperazine; N-methylpiperazine; N-hydroxyethylpiperazine; 2-(2-aminoethoxy)ethanol; 2-(2-tert.-butylaminoethoxy)ethanol; and 2-amino-2-methyl-1-propanol
- 7. (Previously presented) The process of Claim 5 where, included in the treatment Fluid, is at least one co-solvent for acid gases selected from the group of:
 - a) methanol; and
 - b) C₁-C₃ alkyl mono- and di- ethers of ethylene, diethylene, triethylene, tetraethylene, pentaethylene, hexaethylene, heptaethylene, octaethylene, nonaethylene, and undecaethylene glycol; and
 - c) propylene carbonate; 1,3-dimethyl-3,4,5,6-tetrahydro-2(1H)-pyrimidinone;
 sulfolane; 1-methyl-2-pyrrolidinone; morpholine;
 N-formylmorpholine; and N- acetylmorpholine.

- 8. (Previously presented) A regeneration Process for an aqueous, acid gas-rich absorption Fluid comprising at least one nitrogen-based chemical absorbing Agent for an acid gas, which absorption Fluid contains a chemically absorbed acid gas comprising a) hydrogen sulfide, b) carbon dioxide or c) both of said gases, said Process comprising 1) stripping acid gas from the acid gas-rich absorption Fluid in a pressure Vessel operated at essentially a single pressure in excess of about 50 psia and below about 300 psia, and thereafter 2) recovering an acid gas-rich gas stream from the Vessel while maintaining the stream under said pressure, and 3) introducing said gas stream into a first stage compressor, and 4) thereafter reducing by compression the volume of said gas stream.
- 9. (Original) The process of Claim 8, where the gas stream is, after compression, disposed by injection to an ocean- or sea-bed or into a subterranean chamber or formation.
- 10. (Cancelled)
- 11. (Previously presented) The process of Claim 6 where, included in the treatment Fluid, is at least one co-solvent for acid gases selected from the group of:
 - a) methanol; and
 - b) C₁-C₃ alkyl mono- and di- ethers of ethylene, diethylene, triethylene, tetraethylene, pentaethylene, hexaethylene, heptaethylene, octaethylene, nonaethylene, and undecaethylene glycol; and
 - c) propylene carbonate; 1,3-dimethyl-3,4,5,6-tetrahydro-2(1H)-pyrimidinone;
 sulfolane; 1-methyl-2-pyrrolidinone; morpholine;
 N-formylmorpholine; and N- acetylmorpholine.
- 12. (Previously presented) The process of Claim 8 where heat is supplied to Fluid in the Vessel in a sufficient quantity that said Separation Step is conducted at a temperature in excess of 280 deg. F and below 400 deg. F.
- 13. (Previously presented) The process of Claim 8 wherein the stripping acid gas from the acid gas-rich absorption Fluid takes place in a pressure Vessel at a pressure in excess of about 55 psia and below about 300 psia.
- 14. (Previously presented) The process of Claim 8 wherein the stripping acid gas from the acid gas-rich absorption Fluid takes place in a pressure Vessel at a pressure in excess of about 130 psia and below about 300 psia.
- 15. (Previously presented) The process of Claim 8 wherein the stripping acid gas from the acid gas-rich absorption Fluid takes place in a pressure Vessel at a pressure in excess of about 50 psia and below about 200 psia.

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16. (Previously presented) The process of Claim 8 wherein the stripping acid gas from the acid gas-rich absorption Fluid takes place in a pressure Vessel at a pressure in excess of about 50 psia and below about 155 psia.